In the Claims:

- 1. (Currently Amended) An isolated nucleic acid molecule comprising a polynucleotide selected from the group consisting of:
- (a) a polynucleotide encoding the amino acids from about-1 to about-373 of SEQ ID NO:2;
- (b) a polynucleotide encoding the amino acids from about 2 to about 373 of SEQ ID NO:2;
- (c) a polynucleotide encoding the amino acids from about 1 to about 197 and about 236 to about 373 of SEQ ID NO:2, wherein said amino acids about 197 and about 236 are joined by a peptide bond;
- (d) a polynucleotide encoding the amino acids from about 1 to about 288 and about 336 to about 373 of SEQ ID NO:2, wherein amino acids about 288 and about 336 are joined by a peptide bond;
- (e) a polynucleotide encoding the amino acids from about 1 to about 197, amino acids about 236 to about 288, and amino acids about 336 to about 373 of SEQ ID NO:2, wherein said amino acids about 197 and about 236 are joined by a peptide bond, and said amino acids about 288 and about 336 are joined by a peptide bond.
- (f) a polynucleotide encoding the amino acids from about 1 to about 187 of SEQ ID NO:2;
- (g) a polynucleotide encoding the amino acids from about 2 to about 187 of SEQ ID NO:2;
- (h) a polynucleotide encoding the amino acids from about-1 to about-198 of SEQ ID NO:2;
 - (i) the polynucleotide deposited as ATCC Accession No. PTA 89; and
- (j) a polynucleotide at least 80% identical to any one of the polynucleotides of (a) (i);
- (kj) the polynucleotide complement of the polynucleotide of any one of the polynucleotides of (a)-(i).

- (k) a polynucleotide at least 80% identical to any one of the polynucleotides of (a)-(j), wherein said polynucleotide encodes a polypeptide recognized by an antibody raised against Nogo B protein.
- 2. (Currently Amended) An isolated nucleic acid molecule comprising at least 700 contiguous nucleotides from the coding region of SEQ ID NO:1, wherein said coding region encodes SEQ ID NO:2.

Claims 3-4 (Cancelled)

- 5. (Currently Amended) An isolated nucleic acid molecule comprising a polynucleotide encoding a polypeptide wherein, except for at least one conservative amino acid substitution, said polypeptide has an amino acid sequence selected from the group consisting of:
 - (a) amino acids from about 1 to about 373 of SEQ ID NO:2;
 - (b) amino acids from about 2 to about 373 of SEQ ID NO:2;
- (c) amino acids from about 1 to about 197 and about 236 to about 373 of SEQ ID NO:2, wherein said amino acids about 197 and about 236 are joined by a peptide bond;
- (d) amino acids from about 1 to about 288 and about 336 to about 373 of SEQ ID NO:2, wherein said amino acids about 288 and about 336 are joined by a peptide bond;
- (e) amino acids from about 1 to about 197, amino acids about 236 to about 288, and amino acids about 336 to about 373 of SEQ ID NO:2, wherein said amino acids about 197 and about 236 are joined by a peptide bond, and said amino acids about 288 and about 336 are joined by a peptide bond.
 - (f) amino acids from about 1 to about 187 of SEQ ID NO:2;
 - (g) amino acids from about 2 to about 187 of SEQ ID NO:2; and
- (h) amino acids from about 1 to about 198 of SEQ ID NO:2-; wherein said polypeptide is phosphorylated by exposure to unltraviolet irradiation and is recognized by an antibody raised against Nogo B Protein, and wherein said polypeptide has between 1 and 50 conservative amino acid substitutions as compared to the corresponding region of SEQ ID NO:2.

- 6. (Original) A method of making a recombinant vector comprising inserting a nucleic acid molecule of claim 1 into a vector in operable linkage to a promoter.
 - 7. (Original) A recombinant vector produced by the method of claim 6.
- 8. (Original) A method of making a recombinant host cell comprising introducing the recombinant vector of claim 7 into said host cell.
 - 9. (Original) A recombinant host cell produced by the method of claim 8.
- 10. (Original) A recombinant method of producing a polypeptide, comprising culturing the recombinant host cell of claim 9 under conditions such that said polypeptide is expressed and recovering said polypeptide.

Claims 11-22 (Cancelled)

- 23. (Currently Amended) A method of inhibiting cell growth in vitro, said method comprising transfecting said cell with a polynucleotide, wherein said polynucleotide is between 8 and 50 nucleotides in length and said between 8 and 50 nucleotides are complementary to a mRNA molecule encoding SEQ ID NO:2, wherein said polynucleotide is unique to Nogo B cDNA.
- 24. (Original) The method of claim 23, wherein said polynucleotide is between about 15 and 25 nucleotides in length.
- 25. (Original) The method of claim 23, wherein said polynucleotide is selected from the group consisting of SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5 and SEQ ID NO:6.

Claims 26-27 (Cancelled)

- 28. (Currently Amended) A method of inhibiting the activity of Nogo B in a cell in vitro, said method comprising treating said cell with an antisense oligonucleotide wherein said antisense oligonucleotide hybridizes with a polynucleotide encoding Nogo B, wherein said polynucleotide is unique to Nogo B cDNA.
- 29. (Currently Amended) A method of inhibiting the activity of Nogo B in a cell in vitro, said method comprising treating said cell with a ribozyme capable of cleaving mRNA encoding said Nogo B, wherein said ribozyme cleaves mRNA that is unique to Nogo B cDNA.
- 30. (New) The isolated nucleic acid molecule of claim 5, comprising a polynucleotide encoding a polypeptide having not more than 40 conservative amino acid substitutions.
- 31. (New) The isolated nucleic acid molecule of claim 5, comprising a polynucleotide encoding a polypeptide having not more than 30 conservative amino acid substitutions.
- 32. (New) The isolated nucleic acid molecule of claim 5, comprising a polynucleotide encoding a polypeptide having not more than 25 conservative amino acid substitutions.
- 33. (New) The isolated nucleic acid molecule of claim 5, comprising a polynucleotide encoding a polypeptide having not more than 20 conservative amino acid substitutions.
- 34. (New) The isolated nucleic acid molecule of claim 5, comprising a polynucleotide encoding a polypeptide having not more than 15 conservative amino acid substitutions.
- 35. (New) The isolated nucleic acid molecule of claim 5, comprising a polynucleotide encoding a polypeptide having not more than 10 conservative amino acid substitutions.

- 36. (New) The isolated nucleic acid molecule of claim 5, comprising a polynucleotide encoding a polypeptide having not more than 5 conservative amino acid substitutions.
- 37. (New) The isolated nucleic acid molecule of claim 5, comprising a polynucleotide encoding a polypeptide having not more than 3 conservative amino acid substitutions.